

Two New Conopisthine Spiders from Japan

By

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Argyria gen. nov. (Japanese name: Koganehimegumo Zoku)

Cephalothorax flat, head not so elevated, and not specialized even in male. Median furrow transverse. Clypeus as long as the length of median ocular area. Anterior median eyes slightly procurved, while posterior recurved. Eight eyes all of same size. Median eyes of each row nearer to each other than to the laterals. Median ocular area almost square. Sternum convex, narrowing posteriorly where it extends between 4th coxae. Inner sides of maxillae parallel. Leg I more than three times the length. of leg III. Metatarsus of each leg a little longer than tibia. Fem.I somewhat shorter than total length of pat. I and tib.I. All tibiae, metatarsi, and tarsi with many trichobothria, and a drum on each tarsus. Upper claws with several teeth on each, and lower claw with two. Legs without spines. Abdomen protruded backward over the spinnerets. Male with a stridulating ridge on each side near the posterior margin of thorax and serrated rim on anterior part of abdomen. Colulus invisible.

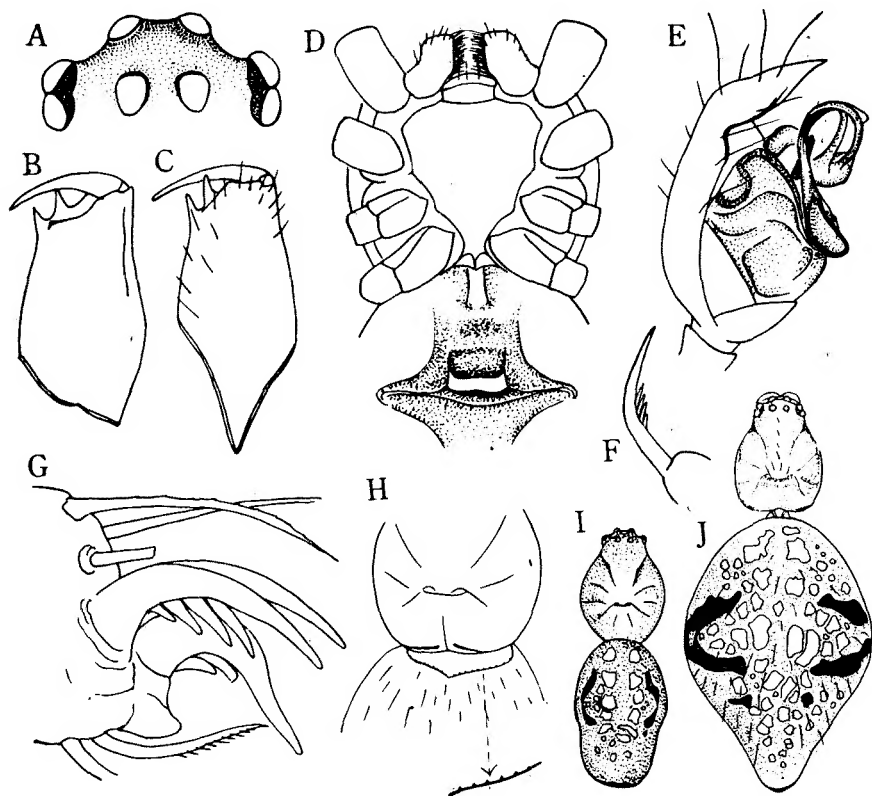
REMARKS: This genus is closely allied to *Argyroelos* HOGG 1922, but is distinguished from it by the shape of median ocular area which is square, and by the inner sides of maxillae being parallel. This genus also resembles *Conopistha* KARSCH 1877, but is separated from it by the following characteristics ;

1. Third leg less than one third length of first leg in both sexes.
2. Head not elevated, even in male.
3. Metatarsus longer than tibia.
4. Retromargin without tooth.
5. Tibia, metatarsus and tarsus of each leg with many trichobothria.

GENOTYPE: *Argyria venusta* sp. nov.

Argyria venusta sp. nov. (Japanese name: Koganehimegumo)

Holotype (♀). Cephalothorax longer than wide, and widest between second and third legs. Cephalic part narrowing in front. Cervical grooves and radial furrows distinct, but the former not reaching a deep transverse median furrow,



T. Yaginuma del.

Fig. 1 *Argyria venusta* sp. nov.

- A. Eyes. B. Inner aspect of left chelicera. C. Outer aspect of right chelicera.
 D. Ventral aspect. E. Male palp. F. Palpal claw of female. G. Claw of 1st leg.
 H. Stridulating apparatus of male. I. Male from above. J. Female from above
 (the same as male in ratio)

Carapace flat and smooth excepting several light hairs on the middorsal of cephalic part. Anterior eye row procurved seen from front, posterior slightly recurved. Eight eyes almost similar in size. Anterior median eyes separated from each other by one, and from laterals by 1.5 times their diameter. Anterior median eyes alone black, and the rest brown. Median ocular area almost square. Lateral eyes contiguous. Clypeus vertical, and nearly equal in length to median ocular area. Chelicerae vertical, promargin of fang furrow with long teeth, retromargin unar-

med. Palpal claw with four teeth. Maxillae parallel, with scopulae at inner sides. Labium much wider than long, and not reaching middle of maxillae, immobile, being fused with sternum, but a groove visible. Sternum shield-shape, extending into 4th coxae, and narrowing posteriorly. Legs 1243, long and slender. First leg longest, more than three times of third leg. Metatarsus longer than tibia. Legs without spines or bristles. Each of two upper claws with four teeth increasing in length distally, the lower claw with two. Extremity of tarsus bears two pairs of accessory claws. Tarsal comb weak developed.

Abdomen broadest in the middle, and protruding backward high above the spinnerets. Epigynum consists of transverse flat chitinized plates, its opening also transverse. Anterior spinnerets much larger than posterior. Colulus invisible.

Colour: Carapace, palpi and legs yellow, but only posterior margin of thorax black. The distal part of each femur, tibia and metatarsus of legs I, II, IV black. Middle of fem. I and tib. I with a brown wide ring fleck on each. Colour of hairs on legs same as that of legs, consequently black hairs on black flecks. Maxillae brown with white inner edges. Labium and sternum blackish brown. Abdomen brown and covered with many golden scales, and with < > shaped black flecks in the middle. Venter of abdomen black.

Allotype: (♂). Almost similar to female in shape and colour, but the body smaller than that of female. Head not raised and not specialized as in *Conopistha*. Abdomen narrow and short, not so protruding over the spinnerets as in female. Legs, 1423, very long compared with body. The tip of cymbium sharp and twisted, conductor and embolus make a complicated ring.

MEASUREMENTS: (mm)

Holotype, Total length 7.7, Carapace 2.4

legs	fem.	pat. & tib.	tib.	met.	tar.	total
1	5.9	6.2	5.0	5.3	1.5	18.8
2	3.6	3.2	2.2	2.6	1.1	10.5
3	1.8	1.9	1.1	1.4	0.7	5.7
4	3.7	3.5	2.6	2.6	1.0	10.7

Allotype, Total length 4.4, Carapace 1.8

legs	fem.	pat. & tib.	tib.	met.	tar.	total
1	6.1	6.4	5.5	6.0	1.7	20.0
2	3.5	3.2	2.5	2.9	1.3	10.9
3	1.8	1.8	1.2	1.3	0.6	5.5
4	3.7	3.4	2.6	2.9	0.7	10.7

REMARKS: This species weaves an irregular web under a leaf of a tree, and never found on other spider's web.

TYPE LOCALITY

Holotype, Mt. Iwawaki, Osaka Pref. (Takeo YAGINUMA, Aug., 9, 1955.)

Allotype, Mt. Buna (Hira), Shiga Pref. (Takeo YAGINUMA, Aug., 4, 1954)

OTHER LOCALITIES :

Osaka, Kyoto, Shiga, Saitama, Gumma, Nagasaki, Nara Prefectures.

Type specimens have been deposited in the collections of Osaka Municipal Museum of Natural History, Nishi-ku, Osaka.

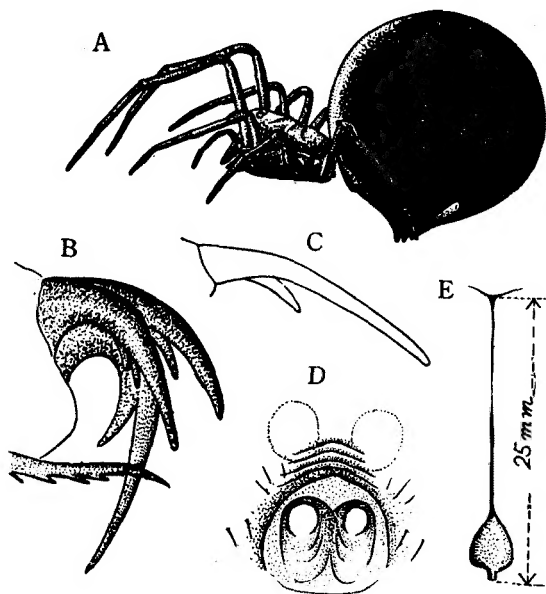
***Spheropistha* gen. nov.** (Japanese name: Maruisōrōgumo Zoku)

Clypeus shorter than median ocular area in length. Median ocular area wider than long, a little wider in front than behind. Median eyes of each row farther from each other than from laterals. Promargin of fang furrow with three teeth,

retromargin none. Labium fused with sternum, immobile.

Metatarsus of front legs shorter than tibia. Tarsus with three claws. Lower claw much longer than upper two. The former with a long tooth, the latter with small teeth. Tibia with two rows of trichobothria, metatarsus with a trichobothrium, and tarsus with only one drum.

Abdomen round, not elongated, as in other Conopisthine spiders. Colulus long



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Fig. 2 *Spheropistha melanosoma* sp. nov.

A. Lateral aspect. B. Claws of 1st leg. C. Palpal claw of female. D. Epigynum E. Egg-cocoon.

and distinct.

REMARKS: This genus is closely related to *Conopistha* by principal characteristics, but it differs from the latter in the following points;

1. Abdomen round, elongation never seen.
2. Clypeus shorter than median ocular area in length.
3. Median eyes of each row widely separated each other.
3. Colulus long and conspicuous.

GENOTYPE: *Spheropistha melanosoma* sp. nov.

***Spheropistha melanosoma* sp. nov.** (Japanese name: Kuromaru-Isōrōgumo)

(♀) Cephalothorax convex, approximately twice as long as broad. Cervical grooves deep and short, not reaching the median furrow, radial furrows distinct. Median furrow transverse, situated much nearer to posterior margin of carapace, only about one third the distance from latter to anterior margin. Eyes in two rows, anterior almost straight seen from front, posterior slightly recurved seen from above. Median eyes of each row farther from each other than from laterals. Lateral eyes almost contiguous. Eight eyes subequal. Median ocular area wider than long, but a little wider in front than behind. Clypeus shorter than median ocular area in length, slightly concaved beneath the anterior eyes. Inner sides of maxillae paralleled, with scopulae. labium immobile, being fused with sternum, wider than long and not reaching the middle of maxillae. Sternum triangular, broadest in front, longer than wide, anterior margin straight, posterior narrow and extend into 4th coxae. Promargin of fang furrow with three teeth, retromargin unarmed. Metatarsus of front leg shorter than tibia. Legs formula 1.4.2.3. Legs without spines or bristles, with a double row of trichobothria on tibia, a trichobothrium on metatarsus, a drum on tarsus. Inner claw of the upper two with two small teeth, the distal long and the other short, and outer claw with a tooth. Lower claw, much longer than the upper two, with a long tooth. Palpal claw also with a tooth.

Abdomen round as in *Latrodectus*, hind elongation never seen as in other spiders of *Conopisthinae*. Colulus long and conspicuous.

Colour: Cephalothorax, sternum and legs deep brown, especially dark in anterior eye region. Chelicerae light brown. Inner edges of maxillae and tip of labium white. Anterior median eyes black, the others pearly. Abdomen black, with two little white spots near the spinnerets.

REMARKS : Some (1 to 3) individuals of this species were found on a web of *Theridion tepidariorum*, mingling with the young spiders of the latter, besides an egg-cocoon of the former was found on the same web. The shape of egg-cocoon, just like *Conopistha*'s. These habit were observed by Mr. K. NAKAHIRA at Kochi Prefecture and by Mr. Z. OSHIMO at Hiroshima Prefecture.

MEASUREMENTS : (mm)

Total length 3.1, Carapace 1.1

legs	fem.	pat. & tib.	tib.	metatar.	tar.	total
1	0.96	0.94	0.70	0.62	0.49	3.1
2	0.70	0.68	0.44	0.42	0.31	2.1
3	0.49	0.44	0.47	0.29	0.31	1.6
4	0.83	0.73	0.47	0.47	0.37	2.4

TYPE LOCALITY : Okawamura, Tosagun, Kochi Prefecture, Japan.

(Mr. Kiyoshi NAKAHIRA, July, 29, 1953.)

OTHER LOCALITY : Yasuuracho, Kamogun, Hiroshima Prefecture, Japan.

(Mr. Zenbei OSHIMO, Aug., 20, 1953.)

Type specimen has been deposited in the collections of Osaka Municipal Museum of Natural History.

後 記

前回の予告とは全く異なった内容になりましたが、予定していた原稿が集まらなかった為で何卒悪しからず御諒承下さい。今回は大変うすっぱらいものですが、植村利夫氏の興味ある優秀な報文で十分満足していたと存じます。八木沼の報文は他へ発表予定していた原稿でしたが、植村利夫氏の論文と関連がある為同時に掲げました。今回も編集には植村・関口両氏の御協力を得ましたことを厚く御礼申し上げます。(Y)

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